

NPOL Imagery from MC3E

These directories contain images of quality controlled and calibrated radar data taken by NPOL during the MC3E field campaign (04/22/2011 – 06/02/2011). The data are written to tar files by date, with one tar file containing all of the PPI, PPI Sector and RHI scans for a given day. The QC'd/Calibrated data are available in the incoming/npol/QC_Cal_UF directory.

The images were created using the IDL port NASA's Radar Software Library (RSL) known as RSL_in_IDL

RSL: http://trmm-fc.gsfc.nasa.gov/trmm_gv/software/rsl/index.html

RSL_in_IDL: http://trmm-fc.gsfc.nasa.gov/trmm_gv/software/rsl_in_idl/RSL_in_IDL.html

The daily tar files are named using the following nomenclature:

mc3e_npol_2011_**mmdd**_images.tar, where **mmdd** is month and day. Each daily tar file contains subdirectories by field type:

Table 1. Description of fields for which NPOL imagery is available

<i>Field Name</i>	<i>Units</i>	<i>Description</i>
CZ	dBZ	Quality controlled, calibrated reflectivity
DR	dB	Differential reflectivity
KD	deg km ⁻¹	Specific differential phase
PH	deg	Differential phase
RH	None	Cross correlation
VR	m s ⁻¹	Radial velocity
ZT	dBZ	Original (no QC or calibration) reflectivity

The individual plot files are named using the following name convention:

npol1_YYYY_MMDD_HHMMSS_FF_swSS_TTT.png

where,

YYYY = 2011

MMDD = month and day

HHMMSS = hour, minute and second of the beginning of the scan

FF is the field (see Table 1)

SS is the sweep number (sweeps 1 and 2 are available for PPS scans)

TTT is the scan type (Plan Position Indicator (PPI) or Range Height Indicator (RHI))

Figure 1 shows an example PPI plot of CZ for 04/25/2011 @ 09:56:30 UTC

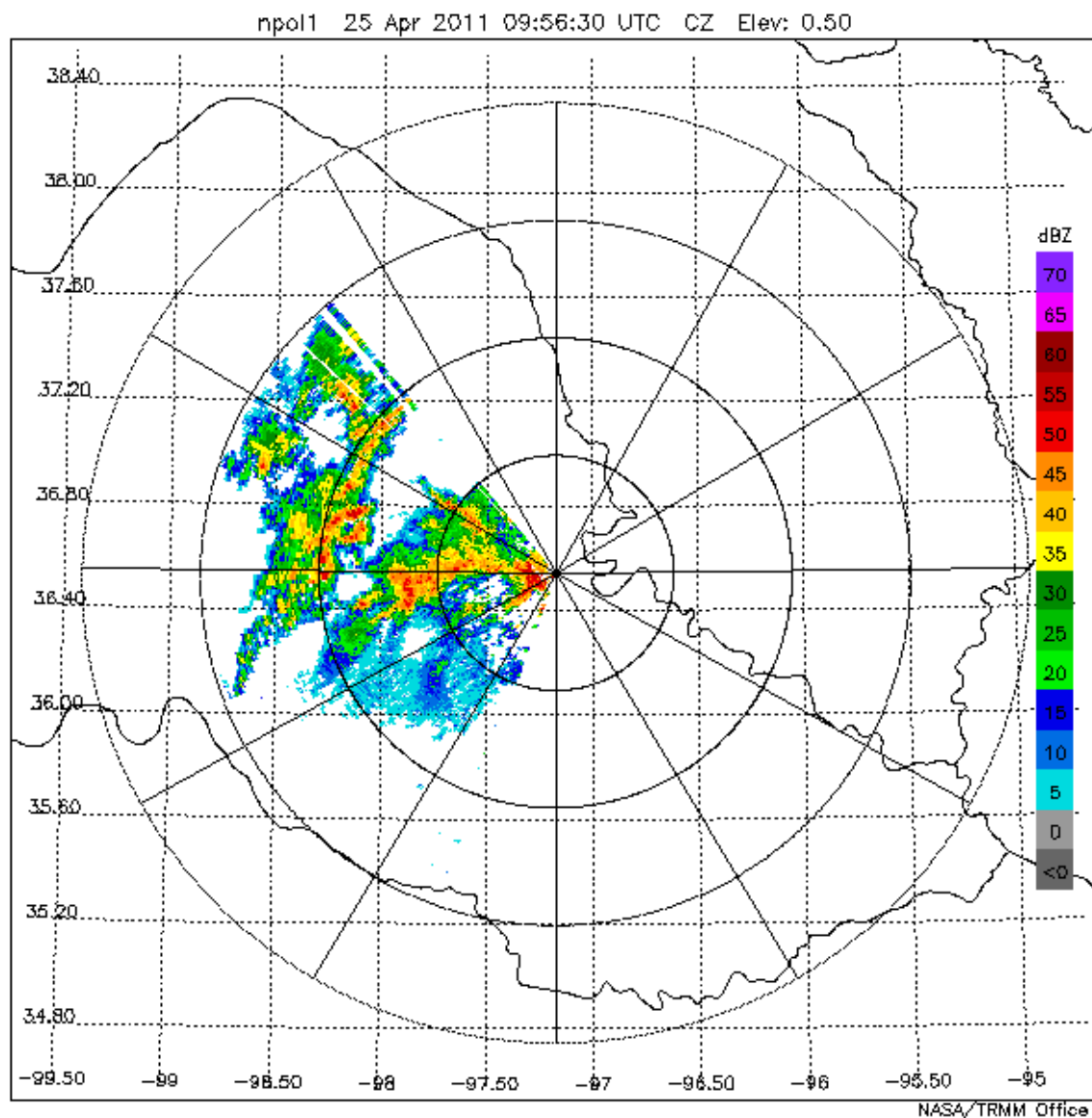


Fig. 1: Sample plot of a quality controlled and calibrated reflectivity PPI from NPOL for the scan beginning at 09:56:30 UTC on 04/25/2011.

Figure 2 provides an example RHI Plot taken shortly after the plot in Figure 1.

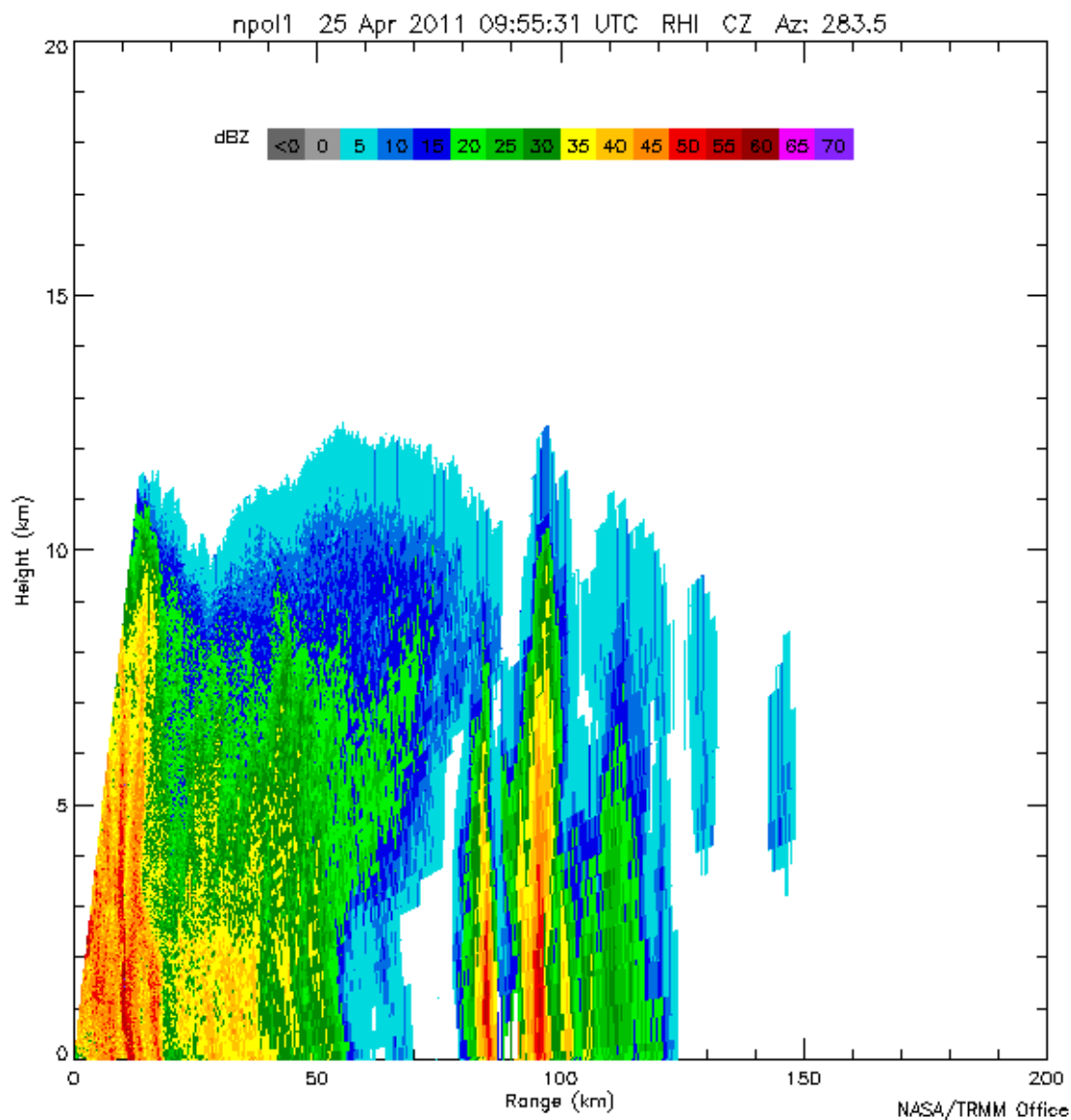


Fig. 2: Sample plot of a quality controlled and calibrated reflectivity RHI from NPOL for the scan beginning at 09:55:31 UTC on 04/25/2011.

Contact Information

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